

PRODUCT DATA SHEET

PT801 OCP Viscosity Index Improver

Description

A solid, pellet form, highly stable ethylene-propylene polymer with narrow molecular weight distribution, intended for use as viscosity index improver (VII) in high quality mineral oil based automotive crank case lubricants.

Typical Physical Properties

PROPERTY	VALUE	METHOD
Appearance	White pellets	-
Density	0.86	ASTM D792
K. Viscosity 10% SN150/100°C (cSt)	905	ASTM D445
K. Viscosity 1% SN150/100°C (cSt)	10	ASTM D445
Pour point 1% P8001 SN150 + 0.3% PPD21 (°C)	-21	ASTM 97
Shear Stability Index (SSI)	24	ASTM 6022
Volatiles (%)	<0.1	ASTM D1416

Example Blends

SAE 10W-40

Composition	Function	% wt.
Liquid P801 (10%)	VI Improver	15
SN150	Base Oil	60.33
Nexbase 3043	Base Oil	24.36
PPD21	PPD	0.31
Properties	J300 Specification	
Kinematic Viscosity at 100°C	12.5-16.3	13.05
CCS at -25°C	7000 max	3150
MRV TP-1 at 30°C, cP	60,000 max	11,700
Yield Stress, gms	-	0

SAE 15W-40

Composition	Function	% wt.
Liquid P801 (12%)	VI Improver	9.0
SN150	Base Oil	58.7
SN 525	Base Oil	32.0
PPD21	PPD	0.3
Properties	J300 Specification	
Kinematic Viscosity at 100°C	12.5-16.3	12.5
CCS at -20°C	7000 max	2900
HSV at 150°C & 10 ⁰ s ⁻¹ , cP	3.7min	3.74

Dosage Guideline

Product	P801
Grade	%
5W30	0.8-1.2
10W30	0.6-0.8
10W40	1.0-1.4
15W40	0.75-0.90
20W40	0.12-0.40
20W50	0.65-0.90

Dissolving

Dissolve polymers with high agitation at 10-12% wt. in SN150 at 100°C (min) -120°C (max) until all polymer has been dissolved. This will typically take 6 -12hours. The liquid VII should be used at a rate to give the effective concentration above. These are approximate ranges based on experience, exact dosage should be determined by preparing a laboratory test blend. Consult PETRAX Technical Department for specific recommendations. Use only suitable pour point depressant.

Availability

Available in 25kg bag

Safety, Handling and Storage

Wear suitable dust mask and gloves when handling polymers. Avoid storing pellet type polymers >30°C for prolonged periods, avoid direct sunlight.